**Quadro de Integrais imediatas.**

1. $\int dx = x + C$
2. $\int x^n dx = \frac{x^{n+1}}{n+1} + C \ (n \neq -1)$
3. $\int \frac{1}{x} dx = \ln|x| + C$
4. $\int e^x dx = e^x + C$
5. $\int a^x dx = \frac{a^x}{\ln a} \ (0 < a \neq 1)$
6. $\int \text{sen} x \ dx = -\cos \ x + C$
7. $\int \cos x \ dx = \text{sen} \ x + C$
8. $\int \sec^2 x \ dx = \text{tg} \ x + C$
9. $\int \text{cosec}^2 x \ dx = -\text{cotg} \ x + C$
10. $\int \sec x \ \text{tg} \ x \ dx = \sec \ x + C$
11. $\int \text{cosec} \ x \ \text{cotg} \ x \ dx = -\text{cosec} \ x + C$
12. $\int \frac{dx}{\sqrt{1-x^2}} = \text{arcsen} \ x + C$
13. $\int \frac{dx}{1+x^2} = \text{arctg} \ x + C$
14. $\int \frac{dx}{x\sqrt{x^2-1}} = \text{arcsec} \ |x| + C$

# Quadro de Integrais - Substituição

1. $\int du = u + c$
2. $\int \frac{du}{u} = ln(|u|) + c$
3. $\int u^{\alpha}\, du = \frac{u^{\alpha+1}}{\alpha+1} + c,\ \alpha \in \mathbb{R} - \{-1\}$
4. $\int a^{u}\, du = \frac{a^{u}}{ln(a)} + c,\ a > 0, (a \neq 1)$
5. $\int e^{u}\, du = e^{u} + c$
6. $\int sen(u)\, du = -cos(u) + c$
7. $\int cos(u)\, du = sen(u) + c$
8. $\int sec^{2}(u)\, du = tg(u) + c$
9. $\int cosec^{2}(u)\, du = -cotg(u) + c$
10. $\int sec(u)tg(u)\, du = sec(u) + c$
11. $\int cosec(u)cotg(u)\, du = -cosec(u) + c$
12. $\int \frac{du}{\sqrt{1-u^{2}}} = arcsen(u) + c$
13. $\int \frac{du}{1+u^{2}} = arctg(u) + c$
14. $\int \frac{du}{u\sqrt{u^{2}-1}} = arcsec(u) + c$
15. $\int senh(u)\, du = cosh(u) + c$
16. $\int cosh(u)\, du = senh(u) + c$
17. $\int sech^{2}(u)\, du = tgh(u) + c$
18. $\int cosech^{2}(u)\, du = -cotgh(u) + c$
19. $\int sech(u)tgh(u)\, du = -sech(u) + c$
20. $\int cosech(u)\, cotgh(u)du = -cosech(u) + c$
21. $\int \frac{du}{\sqrt{1+u^{2}}} = argsenh(u) + c$
22. $\int \frac{du}{\sqrt{u^{2}-1}} = argcosh(u) + c$
23. $\int \frac{du}{u\sqrt{1-u^{2}}} = -argsech(|u|) + c$